

ICC-ES Evaluation Report

ESR-2664

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DIVISION: 07 00 00—THERMAL AND MOISTURE
PROTECTION

Section: 07 72 26—Ridge Vents

REPORT HOLDER:

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EVALUATION SUBJECT:

DIVERSI-PLAST PRODUCTS TRIMLINE® AND TRIMLINE
PLUS RIDGE VENTS, TRIMLINE® CUSTOM SERIES WITH
STORMSTOP AND OWENS CORNING VENTSURE®
RIDGE VENTS

ADDITIONAL LISTEE:

OWENS CORNING
ONE OWENS CORNING PARKWAY
TOLEDO, OHIO 43659
www.owenscorning.com

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2006 *International Building Code*® (IBC)
- 2006 *International Residential Code*® (IRC)
- Other Codes (see Section 8.0)

Properties evaluated:

- Ventilation of attic spaces
- Weather resistance
- Wind uplift resistance

2.0 USES

The Trimline and VentSure ridge vents are installed in conjunction with eave, cornice, and soffit vents to provide natural ventilation of enclosed attic and rafter spaces.

3.0 DESCRIPTION

3.1 Ridge Vents:

The vents consist of multiple layers of corrugated polyethylene, classified as CC2 plastic under IBC Section 2606.4. The vents are available in standard profiles (six corrugated layers) and low profiles (four corrugated layers). The low-profile vents are available in both fold-out

and rigid-roll styles and may have a spun-bound polypropylene membrane adhered on the inside face.

3.2 Wind Deflectors:

The net-free ventilation area is 19 square inches (123 cm²) per lineal foot (305 mm) of vent, for the standard profile vents, and is 12.7 square inches (82 cm²) per lineal foot (305 mm) of vent for the low-profile vents. See Table 1 for dimensions and product names.

When required by Section 4.2 of this report, 0.02-inch-thick (0.51 mm), mill-finished, 5052-H32 aluminum wind deflectors, supplied by Diversi-Plast Products, are installed beneath the standard profile vents.

4.0 INSTALLATION

4.1 General:

Minimum roof slope is 3:12 (25% slope). A 3½ -inch-wide (88.9 mm) slot is cut in the sheathing at the ridge, 1¼ inch (44.4 mm) on each side of the ridge (1-inch (25.4 mm) if there is a ridge board), leaving a minimum of 6 inches (152 mm) of the sheathing inside the exterior wall line at each end. The ridge vents are centered over the ridge and attached to sheathing by means of two nails on each end of the vent, one nail on each side of the ridge line. On 4-foot-long (1219 mm) ridge vents, the nails are spaced at a maximum of 46 inches (1168 mm) on center, 1 inch (25.4 mm) from each end. On longer vents, the nails are located 1 inch (25.4 mm) from each end and are spaced at a maximum of 48 inches (1219 mm) on center. The nails must be 0.125-inch-diameter-shank (3.2 mm), galvanized roofing nails with 0.385-inch-diameter (10 mm) heads and a minimum length such that the nails penetrate the sheathing a minimum of ¾ inch (19.1 mm), or through the thickness of the sheathing, whichever is less. When required by Section 4.2 of this report, wind deflectors are installed beneath the vents, and two additional nails are driven on each side of the vent to hold the deflector in place. The ridge vents must be covered with asphalt ridge shingles or wood ridge shakes that are attached to the roof structure by means of fasteners consistent with the fasteners used to attach the roof coverings without roof vents, but with increased fastener length to provide the minimum nail penetration. Exposed ends of the ridge vents must be sealed as described in the manufacturer's instructions. See Figures 1–3 for typical installation details.

4.2 Wind Resistance:

The ridge vents are permitted to be installed on buildings in areas having a maximum basic fastest mile wind speed of 80 miles per hour (129 km/h), or a maximum basic 3-second-gust wind speed of 100 miles per hour (161 km/h), on structures having a mean roof height of 40 feet (12 192 mm) in Exposure B, C and D areas.

When the standard profile vents are installed with aluminum wind deflectors as described in Section 4.1, the ridge vents are permitted to be installed on buildings in areas having a maximum basic fastest mile wind speed of 80 miles per hour (129 km/h), which is equivalent to a maximum basic 3-second-gust wind speed of 100 miles per hour (161 km/h), on structures having a mean roof height of 40 feet (12 192 mm) in Exposure B, C and D areas.

5.0 CONDITIONS OF USE

The Diversi-Plast Products Trimline and Trimline Plus Ridge Vents, and Owens Corning VentSure Ridge Vents, described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1 The ridge vents are installed in accordance with this report and the manufacturer's instructions. In the event of a conflict between the manufacturer's instructions and this report, this report governs.
- 5.2 The ridge vents are installed on roofs having a minimum slope of 3:12 (25% slope).
- 5.3 The ridge vents must be installed only on roofs upon which a nonclassified roof covering is permitted in accordance with IBC Section 1505.5, or where Class A, B or C roofing is not required by IRC Section R902.1.
- 5.4 Wind resistance of the ridge vents is limited to those areas described in Section 4.2 of this report.
- 5.5 Roof diaphragm nailing requirements of the applicable code must be addressed, and the vent installation must be approved by the building official.

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Attic Vents (AC132), dated June 2009.

7.0 IDENTIFICATION

Labels on packages of ridge vents bear the Diversi-Plast Products or Owens Corning company name and address, the Trimline or VentSure product name, the model designation, and the evaluation report number (ESR-2664). Each individual vent is either identified by a label that bears the Diversi-Plast Products or Owens Corning company name and address, the Trimline or VentSure product name, and the model designation; or is embossed with the product name and type of vent.

8.0 OTHER CODES

8.1 Evaluation Scope:

In addition to the codes listed in Section 1.0, the Diversi-Plast Products Trimline and Trimline Plus Ridge Vents, and the Owens Corning Ventsure Ridge Vents, were also evaluated for compliance with the 1997 *Uniform Building Code*TM (UBC) and the BOCA[®] *National Building Code/1999* (BNBC). The products comply with the UBC and the BNBC under the conditions noted in Sections 8.2 through 8.7 of this report.

8.2 Uses:

See Section 2.0.

8.3 Description:

See Section 3.0 except, under the UBC, change the first sentence of Section 3.1 to read as follows: The vents consist of multiple layers of corrugated polyethylene classified as CC2 plastic under UBC Section 217.

8.4 Installation:

See Section 4.0 except, under the BNBC, replace the first sentence of Section 4.1 with the following: The ridge vents are limited to installation on roofs with asphalt shingle roof coverings and with a minimum slope of 2:12.

8.5 Conditions of Use:

See Section 5.0 except, under the BNBC, replace the wording in Sections 5.2 and 5.3 as follows:

- 5.2 The ridge vents are installed on roofs having a minimum slope of 2:12 (17% slope).
- 5.3 The ridge vents are installed only on roofs with asphalt shingle roof coverings.

Under the UBC, replace the wording in Section 5.3 with the following: The ridge vents are installed only on roofs upon which a nonrated roof covering is permitted in accordance with UBC Section 1504.3.

8.6 Evidence Submitted:

See Section 6.0.

8.7 Identification:

See Section 7.0.

TABLE 1—TRIMLINE AND VENTSURE DESCRIPTIONS

PROFILE	WIDTH (inches)	LENGTH (feet)	PRODUCT NAME
Standard Profile	9 and 11 ¹ / ₄	4 and 8	Trimline Standard
Low Profile—Foldout	7, 9 and 11 ¹ / ₄	4 and 8	Trimline Low Profile Trimline Ridge Vent Plus Trimline [®] Rigid Vent TM Custom Series with StormStop TM Owens Corning VentSure Low Profile Owens Corning VentSure with Weather Protector
Low Profile—Rigid Roll	7, 9 and 11 ¹ / ₄	20 and 50	Trimline Rigid Roll Trimline [®] Ridid Roll [®] Custom Series with StormStop TM Trimline Rigid Vent Custom Series with StormStop Trimline Rigid Roll Plus
		20 and 50	Owens Corning VentSure Roll Owens Corning VentSure Rigid Roll with Weather Protector

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 in.²/lin. ft. = 2117 mm²/m.

¹See Figure 1 or additional data.

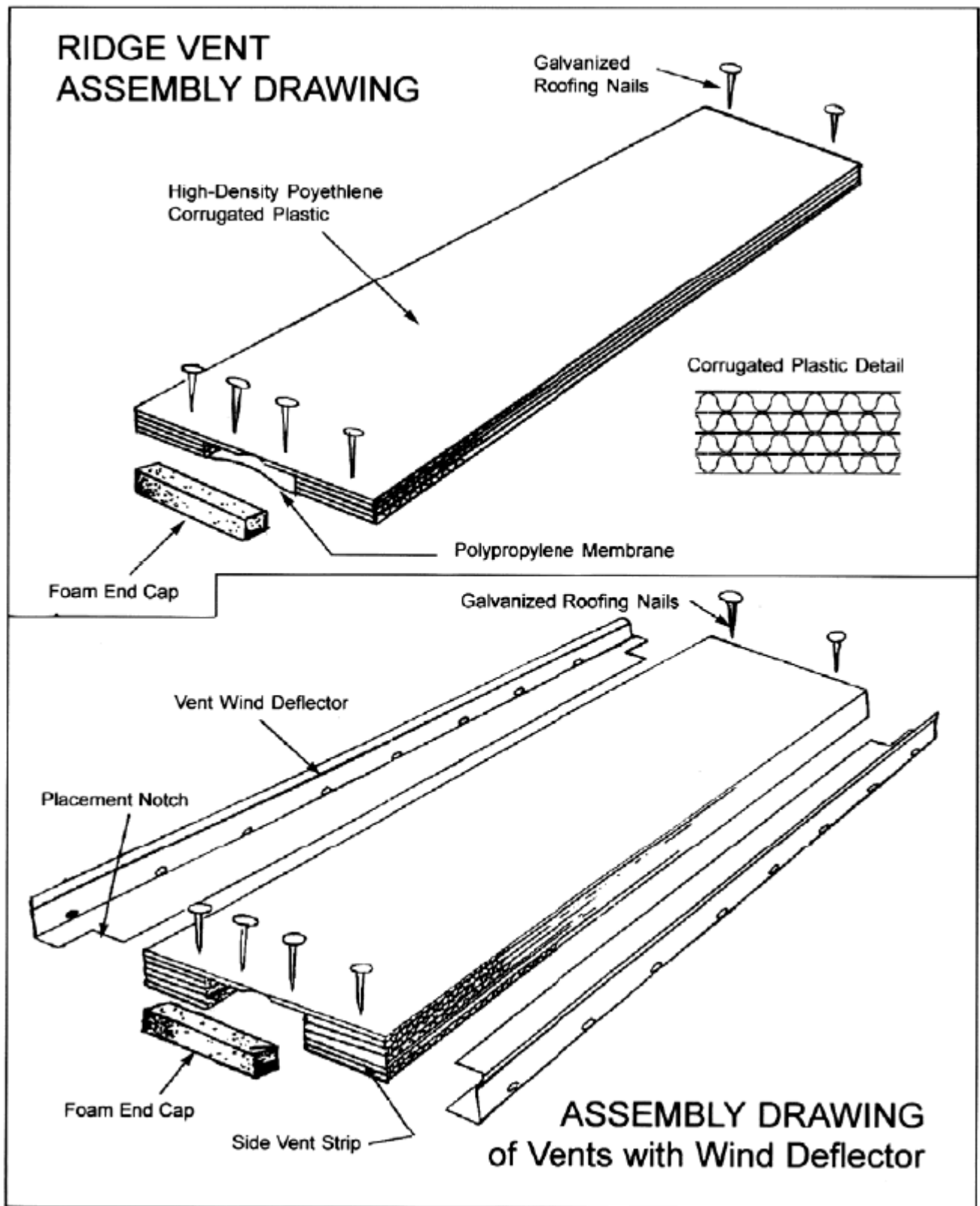


FIGURE 1

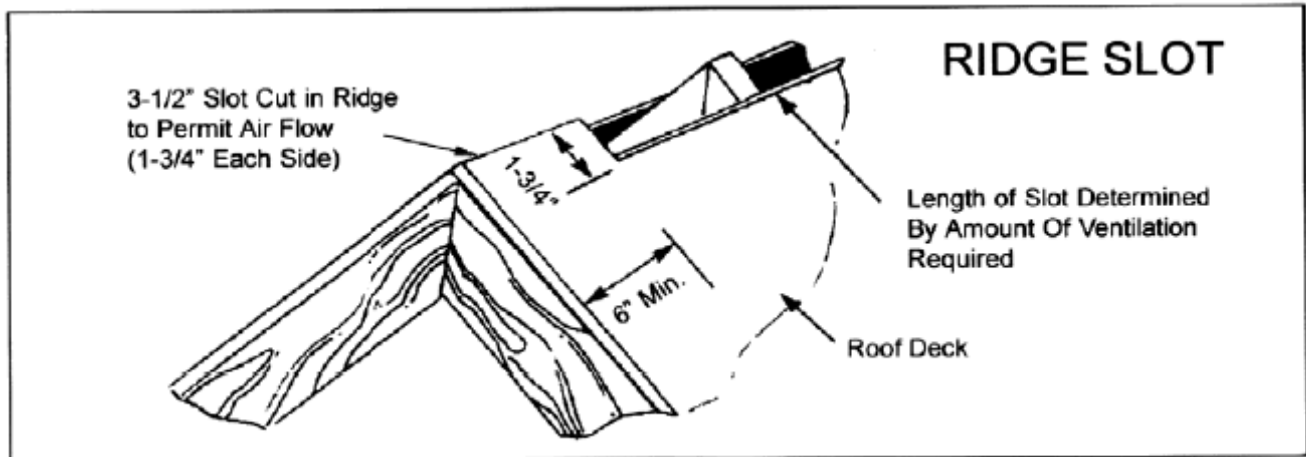


FIGURE 2

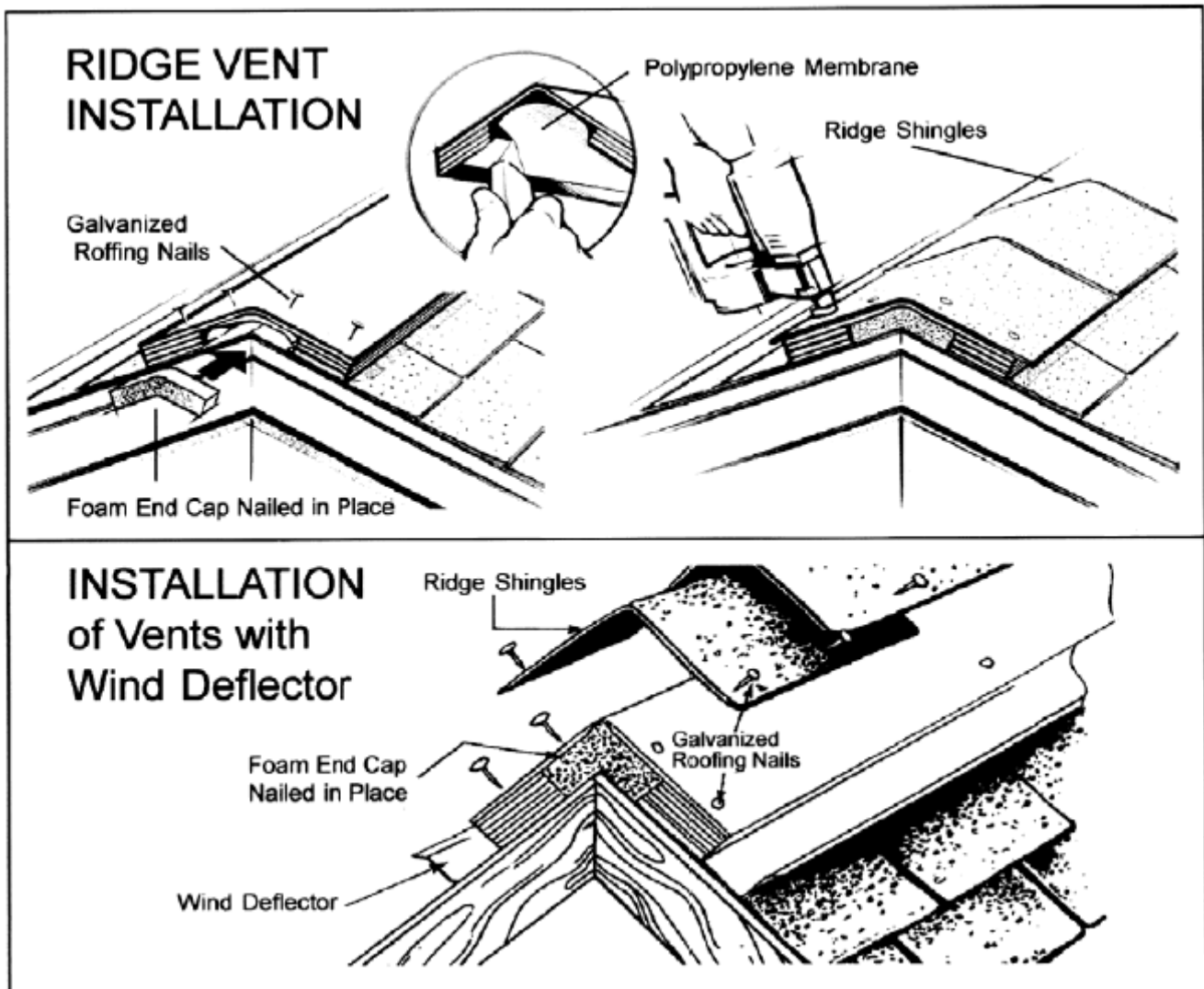


FIGURE 3